DISH Network

SR200 User's Guide

130885

SIRIUS

Warning and Attention Symbols

You must be aware of safety when you install and use this system. This User Guide provides various procedures. If you do some of these procedures carelessly, you could injure or kill yourself or damage equipment or property. Some other procedures require special attention.

The WARNING! symbol means that if you are not careful,
You could injure or kill yourself, or
You could damage equipment or property.

The ATTENTION! symbol means you should pay special attention to:
Important instructions for using the system, or
Important instructions for maintaining the system.

For Your Safety

Do not try to open the case of the receiver. There is risk of electrical shock, which may cause damage to the receiver and/or personal injury or death to you. There are no user-serviceable parts inside the receiver.

Opening the receiver case or making unauthorized changes will void the warranty.

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Safety Precautions

Warning

Take the following precautions to prevent traffic accidents and avoid personal injury:

- Installation must be performed according to this installation manual. DISH Network is not responsible for
- issues arising from installations not performed according to the procedures in this manual.
- Do not install the unit where it may obstruct your view through the windshield or of your vehicle’s indicator
- displays.
- Do not install the unit where it may hinder the function of safety devices such as an airbag. Doing so may
- prevent the airbag from functioning properly in the event of an accident.
- The installation and use suggestions contained in this manual are subject to any restrictions or limitations
- that may be imposed by applicable law—the purchaser should check applicable law for any restrictions or
- limitations before installing and/or operating this unit.
- Failure to follow these safety instructions and warnings may result in a serious accident.

Warning

- Do not operate the unit in a way that might divert your attention from driving safely. As a driver, you alone are responsible for safely operating your vehicle in accordance with traffic safety laws at all times.

Warning

Take the following precautions to prevent fire and avoid personal injury:

- To avoid short circuits, never put or leave any metallic objects (coins, tools, etc.) inside the unit.
- If the unit emits smoke or strange smells, turn the power off immediately.
- Do not drop the unit or subject it to strong shocks.
- If the LCD display becomes damaged or broken, do not touch the liquid crystal fluid. The fluid may be
- dangerous to your health or even fatal. If the liquid crystal fluid contacts your body or clothing, immediately wash it off with soap and water.

Caution

Take the following precautions to keep the unit in proper working order:

- Be sure the unit is connected to a 12V DC power supply with a negative ground connection.
- Do not open the unit.
- When replacing a fuse, use only a new one with the proper rating. Using a fuse with the wrong rating may
- cause the unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- When drilling holes to mount the unit, make sure not to damage wiring or other systems on the other side.

Caution

Take the following precaution while setting up your SR200:

Don't push any buttons or perform any operations until updating has been completed. Once all updated SIRIUS channels are received, the display will change to **Call 1-888-539-SIRIUS to Subscribe** and will place you in SIRIUS Satellite Radio's Preview Channel. Channel 184 is the SIRIUS preview channel. You will not be able to tune to any other channels until you activate your SIRIUS subscription.

Note

If the unit doesn't seem to be working properly:

- Turn the unit's power off, wait 5 – 10 seconds, then turn the power on again.
- If the unit still mis-operates, turn the unit's power off, remove it from the cradle, wait 5 – 10 seconds, replace it in the cradle and turn the power back on. If the problem persists, consult your dealer.

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CONGRATULATIONS!

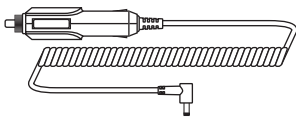
Your new R200 portable Plug-n-Play from DI H Network lets you enjoy IRIU ® atellite Radio's digital entertainment channels. Use this manual to familiarize yourself with all of R200's features and capabilities.

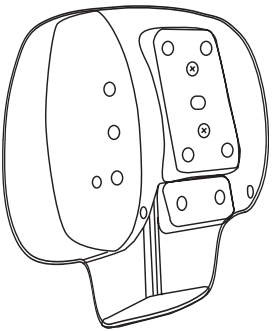
Box Contents

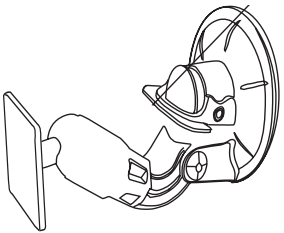
Unpack your R200 carefully and make sure that everything listed here is present:

- R200 Main Receiver Unit
- Remote Control
- Vehicle docking cradle with wireless FM transmitter (R200D)
- Windshield Mount
- Cigarette Lighter Power Cord
- Magnetic roof-mount IRIU antenna
- Batteries (not shown)

Note: For the car cassette adapter, contact an authorized sales center.







If anything is missing or damaged, or if your R200 fails to operate, notify your dealer immediately. If your R200 was shipped to you directly, notify your shipper immediately. DI H Network recommends that you retain the original carton and packing materials in case you need to ship your R200 in the future.

Note: Do not put the R200 in the docking station until you have completed the installation.

Quick Start Guide

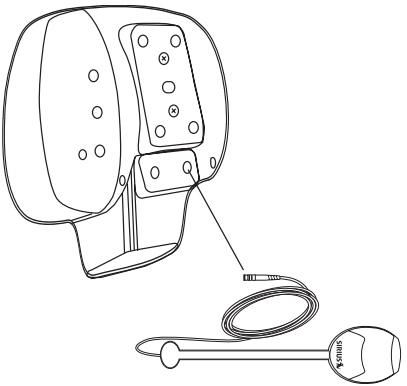
After you have successfully installed the R200 and activated your IRIU subscription, the **Normal Operation** screen will appear. The R200 has four ways to find music:

- **Select Music with the NAVIGATION WHEEL.** Turn the NAVIGATION WHEEL to find channels you like. When you stop turning the NAVIGATION WHEEL, the R200 tunes to the selected channel.
- **Select Music by Direct Tuning.** Press the NAVIGATION WHEEL and then use the 0-9 buttons to enter the channel you want to hear.
- **Select Music by Category:**
  1. Press the CATEGORY button up or down to scroll through the various music and entertainment categories.
  2. When the category (for example, Rock) you want is highlighted, turn the NAVIGATION WHEEL to highlight the channel you want.
  3. Press the NAVIGATION WHEEL to select the channel.
- **Select Music by List Mode**.
  1. Press and hold the DISPLAY (DISP) button for two seconds while in the **Normal Operation** mode to display a **List** screen (**Channel**, **Artist**, and **Song Title**).
  2. Press the DISPLAY (DISP) button to scroll through the lists:
     - nce to display the **Channel List**.
     - Twice to display the **Artist List** screen.
     - Three times to display the **Song Title List** screen.
  3. Turn the NAVI ATI N WHEEL to scroll through the selected list.
  4. Press the NAVI ATI N WHEEL to play the selection.

Installation Instructions

1. Determine where you want to mount R200.
   - Do not install R200 where it may obstruct your view through the windshield or your view of your vehicle's indicator displays.
   - Do not install R200 where it will hinder your access to the vehicle's controls.
   - Do not install R200 where it may hinder the function of safety devices such as an airbag. Doing so may prevent the air-bag from functioning properly in the event of an accident.
   - Find a location that provides good visibility of and access to R200's front panel.
   - Mount R200 in a location on the windshield with the provided suction-cup mount.
2. Using the provided screws, assemble the docking station cradle to the windshield mount.
3. Plug the cigarette lighter power cord into the back of the cradle. Don't plug the power cord into the cigarette lighter until the installation is completed.
4. Tune your radio to one of four FM stations on the side of the vehicle dock.

Installation in a Vehicle: Mounting the Antenna



1. Temporarily plug the antenna into the **ANT** connector on the back of the cradle until it is firmly seated.
2. Find an antenna location on a metal surface of your vehicle at least 12" x 12", and at least 6" from a window.
   - Best reception is achieved with the antenna mounted on the roof (trunk for convertibles).
   - If the vehicle has a roof rack or skid ribs, it may be necessary to mount the antenna off-center.
3. The antenna's powerful magnet will secure it to the metal surface. Before routing the antenna cable, confirm that the antenna is mounted in a good location.
4. Temporarily plug the cigarette lighter adapter into the cigarette lighter.
5. lide R200 all the way into the cradle so that the connector at the bottom of the unit makes proper contact in the cradle. Press the P WER button to turn R200 on.
6. If your R200 has been properly connected and the antenna is receiving the IRIU signal you will hear audio. If you do not hear audio, the display will read **Acquiring Signal**. Reorient the antenna until you hear audio. ee *Antenna Aiming* on page 24 to use the ANTENNA SIGNAL screen to aim the antenna.
   - Make sure the vehicle is not in garage, or somewhere the satellite signal could be blocked.

Installation in a Vehicle: Running the Antenna Cable

1. Turn R200's power off and remove it from the cradle; unplug the cigarette lighter adapter from the cigarette lighter; unplug the antenna from the cradle.
2. Route the cable from the antenna to the vehicle's interior by tucking it underneath the rubber molding around rear window, as shown below.
3. Route the cable from the lowest point of the rear window into the trunk. Take advantage of any existing cable channels or wiring conduits.
   - For UVs, minvans, and 5-door vehicles, bring the cable into the vehicle under the rubber molding for the tailgate, and continue under the interior trim.
4. From the trunk, route the cable around the passenger compartment and to the back of the cradle.
   - Do not pull the wire across sharp edges that could damage it.
   - Keep the wire away from areas where it could become tangled in driver's and passenger's feet.
5. Plug the antenna into the back of cradle where it says **ANT**.
6. Plug the cigarette lighter adapter into the cigarette lighter.

   Note: Do not leave the cigarette lighter adapter plugged in after you turn the vehicle's ignition off.

SR200 Controls and Features

POWER Button

Turns R200 n and ff; exits the **Channel**, **Category**, **Song and Artist List** modes.

NAVIGATION WHEEL

Navigates through display screens and makes selections of items highlighted on the display. Clockwise increases or moves up in the menus. Counterclockwise decreases or moves down in the menus. Press the NAVIGATION WHEEL to makes selections.

CATEGORY Up/ Down Button

Navigates through **Category List** screen which displays IRIU Channel Categories.

Display (DISP) Button

Changes text size of artist names and song titles.

Menu Button

Used to access menu options to make set-up and feature changes.

Preset Number Buttons (0-9)

ets and selects preset channels.

Memory (MEMO) Button (S-Seek Function)

aves and recalls artist names and song titles. You can store up to 20 artist/song title combinations.

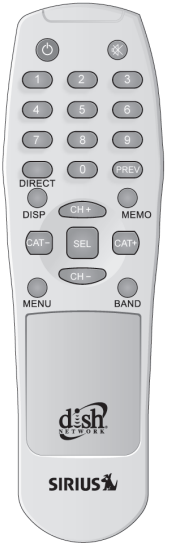
Band Button (P.Tune)

Pressing and releasing switches between preset banks **A**, **B**, and **C**, which hold 10 presets each. Pressing and holding enables **Preset Tune Mode**, which allows for viewing and listening of stored presets with turn of the NAVIGATION WHEEL.

Remote Control Receiver

Receives signals from the included wireless remote control.

Remote Control Functions



POWER Button

Turns R200 on and off.

CH+/ CH-/ CAT+/ CAT- Buttons

Navigate through channels, categories, and display screens.

Mute Button

Mutes audio.

PREVIOUS (PREV) Button

Navigates back to previous channel.

DIRECT Button

Accesses channels directly by number.

SELECT (SEL) Button

Press to select items highlighted on the display; hold-down to jump to the previously-received channel.

MENU Button

Enters and exits the **Setup Mode**.

MEMORY (MEMO) Button

aves and recalls **Song and Artist** information; sets **Parental Lock** code number.

DISPLAY Button

Changes text size of artist names and song titles.

BAND Button

witches between preset bands **A**, **B**, and **C**.

Number Buttons (0-9)

elects channels directly and by preset.

Installing Batteries in the Remote

1. Remove the battery cover.
2. Install two AAA batteries.
3. Replace the battery cover.

Activating your SIRIUS Subscription

1. Before you can listen to R200, you must subscribe to IRIU atellite Radio's service.
2. Make sure that R200 is properly connected and that its antenna is oriented to receive the IRIU satellite signal. ee *Installation* sections for details)
3. Press the POWER button to turn R200 on. After displaying the IRIU logo, R200 will update all IRIU channels. The display will read **UPDATING CHANNELS** on the top line and X% **Completed** (**0%-20%-40%-60%-80%-100%**) on the bottom line shall be displayed by the R200 until the update completes.

Note: Don't push any buttons or perform any operations until updating has been completed. nce all updated IRIU channel channels are received, the display will change to **Call 1-888-539-SIRIUS to Subscribe** and will place you in IRIU atellite Radio's Preview Channel. Channel 184 is the IRIU preview channel. You will not be able to tune to any other channels until you activate your IRIU subscription.

4. Press the MENU button to enter the **Setup Mode**. The **SIRIUS ID** Menu ption will be highlighted.
5. Push the NAVIGATION WHEEL to select **SIRIUS ID**. This will display your unit's unique 12-digit **SIRIUS ID (SID)** number. This **SID** number should also be available on the R200 packaging. Write the number down and have your credit card handy.
6. Contact IRIU on the Internet at: https://activate.siriusradio.com/ Follow the prompts to activate your subscription.
   - You can also call IRIU toll-free at 1-888-539- IRIU (7474). The operator will instruct you.

Removing SR200 from the Dock

To remove R200 from the docking station, press the button on the underside of the unit and gently slide R200 out of the cradle. Replace it by sliding the unit all the way into the cradle so that the connector at the rear of the unit makes proper contact in the cradle.

Basic Operation

After you have successfully activated your IRIU subscription, the **Normal Operation** screen will appear. Use the NAVIGATION WHEEL to select channels.

The selected channel will automatically play the name and artist of the currently-playing song and will scroll across the display. If you want to listen to a different entertainment category, push the CATEGORY button up or down to activate the **Category Select** screen:

1. Use the CATEGORY button to scroll through music and entertainment categories.

want is highlighted, use the
nnel you want to hear.

ess the NAVIGATION WHEEL
t to the **Normal Operation**

Selecting Music

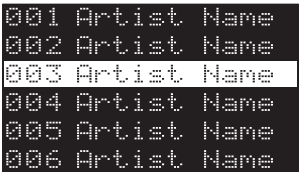
In addition to the **Normal Operation** and **Cat**
select music: by channel, by artist, and by song.

Selecting Music by Channel (Chan

1. Press and hold the DISPLAY (DISP) button
   Normal Operation mode. The **Channel L**
   all available channels regardless of category.
2. Use the UP and DOWN ARROW buttons to
3. Press the NAVIGATION WHEEL to play the

Selecting Music by Artist (Artist List Mode)

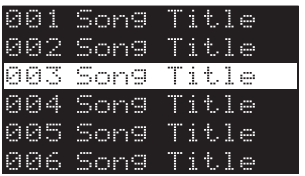
1. While the **Channel List** screen is active, press the DISPLAY (DISP) button once. The **Artist List** screen will appear, showing all currently-playing artists regardless of category.
   - If composer information is available for a channel, it will be displayed along with the artist information.
2. Use the NAVIGATION WHEEL to move through the list of Artists.
3. When the Artist you want to hear is highlighted, press the NAVIGATION WHEEL to listen to them.



Artist List Screen

Selecting Music by Song Title (Song Title List Mode)

1. While the **Channel List** screen is active, press the DISPLAY (DISP) button twice. The **Song Title List** screen will appear, showing all currently-playing songs regardless of category.
2. Use the NAVIGATION WHEEL to move through the list of songs.
3. When the song you want to hear is highlighted, press the NAVIGATION WHEEL to listen to it.



Song List Screen

Direct Tuning

Channels can also be directly accessed by pressing the NAVIGATION WHEEL and using the 0-9 number keys to numerically enter the desired channel. nce the desired channel number has been entered, press the NAVIGATION WHEEL again to play the desired channel.

Direct Tuning Screen

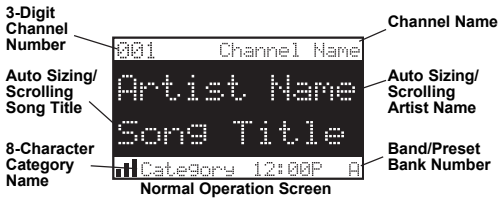
Setting Channel Presets

You can store up to 30 of your favorite channels as presets, for quick access. Presets are stored in 3 banks, **A**, **B**, and **C**, each containing 10 channel presets.

1. Press the BAND button to activate the preset bank you want. The selected bank is shown in the lower right corner of the **Normal Operation** screen.
2. elect the channel you want to preset (see *Basic Operation and Selecting Music*).
3. Hold the number button you want to store the channel in for at least 2 seconds.
   - The selected preset number will flash and then remain lit on the display to show that it has been memorized.
   - If the preset button already has a channel stored in it, it will be replaced with the new channel.

Tuning Channel Presets

1. The 10 presets in the active bank can be selected by pressing the 0 – 9 buttons.
2. When the desired preset bank is displayed, use the 0 – 9 buttons to tune the desired preset channel.



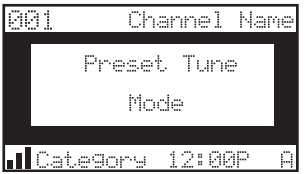
Normal Operation Screen

Searching for a Channel Preset

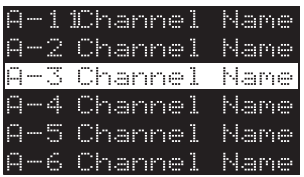
To search by list for a preset, press and hold the BAND button to enter **Preset Tune Mode** (**P.TUNE**). While the contents of the preset listing is displayed, rotate the NAVIGATION WHEEL to navigate through the list.

Preset Tune Mode

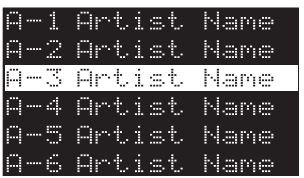
When in the **P.Tune Mode**, press and hold the DISP button for 2 seconds; this exits normal preset tuning and enters a 6-line menu mode which displays the **Preset Number** (**A-1**, for example), a single space and the 20-character channel name. While in the **Preset List** menu, pressing the DI P button once will change to **Artist List**; a second press of the DISP button changes to **Song Title List**.



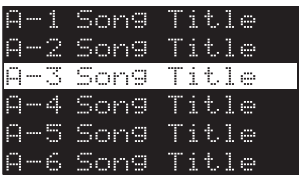
P.Tune Mode Screen



P.Tune Channel List Screen



P.Tune Artist List Screen



P.Tune Song List Screen

Display Button

Pressing the DISP button from the **Normal Operation** screen toggles between the artist name, song title fields and large character size. In doing so, this will change the character size and cause the field to scroll. This feature is useful when viewing the display at a distance.

Normal Operation Screen

Normal Operation - Large Font Screen

Note: The field will scroll only if the length of the artist or title cannot be viewed in its entirety.
Pressing and holding the DISP button will enter the channel list mode.
While in the **Channel List** mode, any subsequent press of the DISP button will
display program information by **Artist Name** or **Song Title**. Pressing and holding the DISP button will exit the **Channel List** mode and return to the previously
selected tuning/display mode.

Channel List Screen

Memory Button (S-Seek Function)

This feature allows the user to capture and store the current program definition text (**PDT**) (**Artist and Song** title) with a total of 20 listings (20 **Artist/Song Title** combinations). The unit also has the capability to search the current incoming IRIU signal and alert the user when a saved song is being played.

1. While the R200 is in either of the two standard display modes, momentarily pressing and releasing the MEMO button stores the current program data information within the R200's memory. A **Memory Stored** pop-up screen, followed by **X Used / Y Empty** will each appear for 1 second.

Memory Stored Screen

Memory Used/Empty Screen

2. By holding down the MEMO button for 3 seconds, the stored memory information (one at a time) is displayed on the screen in page format. Use the NAVIGATION WHEEL to scroll through the 20 entries. This function allows you to recall information regarding the **Artist/Song Title** for your own personal review.

Memory Select Screen

3. Momentarily pressing the NAVIGATION WHEEL while in memory recall mode results in a pop-up screen displaying two selectable options:
   - Delete
   - - eek

   Turning the NAVIGATION WHEEL highlights the options and pushing the NAVIGATION WHEEL selects the option. The **S-Seek** option implies **S-Seek On/Off**, with the default setting as **S-Seek On**.

Memory Recall Mode Screen

4. Each time the R200 is turned on, it automatically searches the incoming signal to determine if a match exists between the signal and the currently saved information stored in receiver memory. If one or more matches are found, a pop-up screen momentarily appears for 2 seconds and displays the phrase **S-Seek Alert**. An audible beep tone will be heard indicating that a match has been found. The display then reverts to the **S-Seek Alert** screen which displays the current matches. You can now select the **Artist/Song Title** that you wish to listen to.

S-Seek Alert Screen

No stored match alert is provided for the currently selected channel. To ensure that no duplicate entries are stored in memory, the receiver will check the stored input data to ensure the information about to be stored is not already in memory.

a. If one or more matches are found, a display list appears, and allows you to scroll through the list of songs using the NAVIGATION WHEEL. nce a song is found, it can be selected by pressing the NAVIGATION WHEEL, and the display will revert to either of the selected display modes.

b. If a selection is not chosen within 10 seconds after the last action, the screen will revert to the previously selected display and tuning mode.

Note: Play of the current selection will continue until a new selection is made.

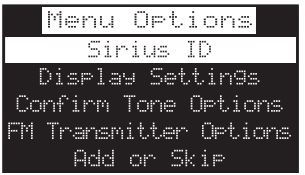
5. If the MEMO button is pressed to save a selection currently playing, and all of the memory spaces are full, a prompt screen alerts you to the possibility of accidentally overwriting a memory space with new information. If the MEMO button is pressed to save a currently playing selection, and all of the memory spaces are full, **S-Seek Full** will flash on the display for 1 second, followed by a pop-up screen presenting the **Replace/Cancel** options. This prompt allows you to make the following **Replace/Cancel** choices:

   a. By selecting **Replace**, the memory list will appear, and you can use the NAVIGATION WHEEL to select the information that you would like to overwrite with the new **Artist/Song Title**. After highlighting the selected title in the list, press the NAVIGATION WHEEL to delete the stored **Artist/Song Title**, and replace it with the updated information.

   b. By selecting **Cancel**, the prompt screen would disappear and revert to the original screen.

Menu Display Options

To enter the **Menu Options** page, press and hold the MENU Button. The **Menu Options** list will appear on the LCD display. Using the NAVIGATION WHEEL, highlight the option you wish to adjust and press the NAVIGATION WHEEL to make the selection. The following options are available:



Menu Options Screen

- IRIU ID
- Display ettings
- Confirm Tone ettings
- FM Transmitter ptions
- Add or kip
- Lock ptions
- Audio Level ptions
- Antenna Aiming
- Memory ptions
- Time Based Features
- Factory Default

If, while in the menu screen function, a button is not pressed within 10 seconds from the previously selected function, the unit exits the menu screen function and reverts to the **Normal Operation** screen display.

SIRIUS ID

Displays your 12 digit IRIU ID number. No adjustments are allowed in this mode. To exit this option, press the NAVIGATION WHEEL or MENU

FM Transmitter Options

The following adjustments are possible:

FM On/Off

Upon entering this mode, rotating the NAVIGATION WHEEL toggles between the **FM On** or **FM Off** function/display selection. To select and exit this function, press the NAVIGATION WHEEL. No button activity for 10 seconds will also exit this function.

FM Transmitter Options Screen

Channel Add/Skip

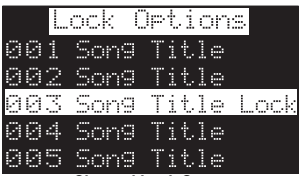
Upon entering this mode, a channel list shall be displayed with the current channel in play highlighted. Rotate the NAVIGATION WHEEL to navigate the list and highlight the channel to be adjusted. nce a channel has been highlighted, pressing the NAVIGATION WHEEL displays the text **Skip** next to the channel, and prevents the channel from being accessible during any of the tuning modes. kipped channels can only be accessed either through direct channel number entry or by returning to this menu and going through the same process to return the skipped channel to the list. Adding a channel will remove the text **Skip** from alongside the channel number/ name.

Add or Skip Channels Screen

Lock Options

Upon entering this mode for the first time, the user is prompted to enter the default four digit numerical code. All future entries into this mode display a channel list with the current channel in play highlighted. The NAVIGATION WHEEL is used to navigate the list and highlight the channel to be locked or unlocked. nce a channel has been highlighted, pressing the NAVIGATION WHEEL displays the text **Lock** next to the channel and prevents the channel from being accessible during any of the tuning modes. Locked channels can be accessed only by direct channel number entry, at which time the user will be prompted to enter the previously stored 4-digit code. nce the correct code has been entered, the audio begins to play. The channel returns to the locked status if the channel is changed or the vehicle/unit is turned off (or by returning to this menu). Upon adding a channel, the text **Lock** is removed from alongside the channel number/name.

Lock Options Screen



Channel Lock Screen

Lock/Unlock Default Code Function

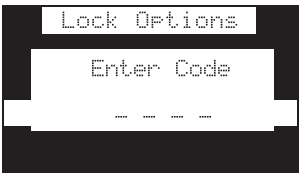
The first time the **Lock/Unlock** function is accessed, the user must enter the default lock code. The default lock code is 0000. This code can be maintained or changed. To change the default lock code perform the following procedure:

1. Press the MENU button to access the **User Menu**.
2. Rotate the NAVIGATION WHEEL to select the **Lock Options**.
3. Press the NAVIGATION WHEEL.
4. Rotate the NAVIGATION WHEEL to highlight **Edit Code**.
5. Press the NAVIGATION WHEEL.
6. Enter the default code 0000.
7. The **New Code** prompt will appear. Enter your new four digit code using the 0-9 number buttons. You will then be prompted to confirm the new code by entering your code again.
8. The lock code is now changed.

Edit Code

Upon entering this mode, the user is prompted to enter the current four digit numerical lock code. nce the correct code has been entered, the user is prompted to enter a new 4-digit code twice. The second entry is requested for confirmation.

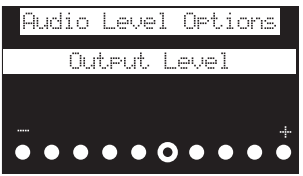
Lock Options Screen



Edit Lock Code Screen

Audio Level

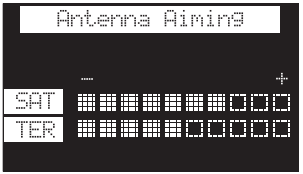
Upon entering this mode, a 10 segment horizontal bar graph is displayed with a **Minus (-)** sign to the left and a **Plus (+)** sign to the right. The current setting is indicated on the bar graph. Rotating the NAVIGATION WHEEL will adjust the bar graph audio level indication and audio gain, accordingly. To select and exit this function, press the NAVIGATION WHEEL. No button activity for 10 seconds will also exit this function.



Audio Output Level Screen

Antenna Aiming

Upon entering this mode, a 10 segment horizontal bar graph is displayed with a **Minus (-)** sign to the left and a **Plus (+)** sign to the right. The current setting is indicated on the bar graph. Moving the antenna location adjusts the bar graph signal strength indication, thus ensuring optimum reception. To exit this function, press the NAVIGATION WHEEL or MENU button.



Antenna Aiming Screen

Memory Options

In this mode, the user can turn the **Memory Search Function** (**S-Seek**) on or off. In addition, all 10 **Memory Locations** can be cleared. n the display, the top line displays the text **Memory Options**.
The following adjustment options are possible:
1. **Automatic Memory Search** function - **On** or **Off**. Use the NAVIGATION WHEEL to select between the two options by highlighting the desired selection. Then press the NAVIGATION WHEEL to enter the option.
2. **Clear all Memory Locations**. Momentarily press the NAVIGATION WHEEL; a prompt display screen appears confirming - **Clear All Memory?** elect **Yes** or **No** and press the NAVIGATION WHEEL.

Time Based Features

The following adjustments are possible:

- Clock
- Alarm Clock
- Program Alert
- Auto hutdown
- leep Mode

Upon entering this mode, rotate the NAVIGATION WHEEL to highlight the desired function and press the NAVIGATION WHEEL.
Note: No button activity for 10 seconds will also exit the desired (highlighted) function.

Clock

When entering this menu option, you can set up the clock shown on the **Normal Operation** screen, based on the format desired, and the time zone in which you reside. The clock data is provided via the IRIU atellite channel, and will update based on the received signal.

Format

The **Clock Format** option provides:

- 12 Hour (Default)
- 24 Hour

Use the NAVIGATION WHEEL to highlight the desired format and press the NAVIGATION WHEEL.

Time Zone

The **Time Zone** option provides:

- (MT-9:00) Alaska
- (MT-8:00) Pacific
- (MT-7:00) Mountain
- (MT-6:00) Central
- (MT-5:00) Eastern
- (MT-4:00) Atlantic
- (MT-3:30) Newfoundland (Abbreviated as MT-3:30 Newfndlnd)

Use the NAVIGATION WHEEL highlight the desired time zone and press the NAVIGATION WHEEL.

Daylight Savings Time (DST) Observance

Activate this function if your area is subject to D T; Turn the NAVIGATION WHEEL to toggle between **DST Observed** (default) or **DST Not Observed**.

Alarm Clock

When this menu option is highlighted and selected, you will be able to set the unit to turn on at a specific time. The last selected channel prior to shutdown will be present when the **Alarm** feature is activated. Alarm appears on the first line of the display followed by the alarm options:

Set Alarm (Default-Off)

Use the NAVIGATION WHEEL to toggle between **Alarm On** or **Alarm Off** and press the NAVIGATION WHEEL for desired alarm status.

Time (Default-12:00pm)

Use the NAVIGATION WHEEL to increase (clockwise) or decrease (counterclockwise) the alarm set time in a circular motion on one line in the middle of the display from the default value (12:00pm). When the desired time is displayed, press the NAVIGATION WHEEL.

Program Alert

When this menu option is highlighted and selected, you will be able to program the unit to switch to a selected channel at a specific time. n the display, **Set Channel Alert** will occupy the top text line.
The following adjustments are accessible:

- Time/Day (Default-12:00pm, Monday)
- Channel (Default-Currently Playing Channel)
- Program Alert n/ ff (Default- ff)

Time/Day

Rotating the NAVIGATION WHEEL toggles between **Time** and **Day**. If Time is selected, use the NAVIGATION
WHEEL increase (clockwise) or decrease (counterclockwise) the set time in a circular motion on one line in the middle of the display from the default value (12:00pm).
When the desired time is displayed, press the NAVIGATION WHEEL. If **Day** is selected, the screen displays a default day of **Monday**, with selectable choices of **Monday**, **Tuesday**, **Wednesday**, **Thursday**, **Friday**, **Saturday** or **Sunday**. Use the NAVIGATION WHEEL to increase (clockwise) or decrease (counterclockwise) the desired day in a circular motion on one line in the middle of the display from the default value (**Monday**).

Channel

Rotate the NAVIGATION WHEEL to scroll through a listing of all the IRIU channels in a circular motion. The listing should encompass all 6 available lines. When the desired channel is highlighted, press the NAVIGATION WHEEL.

Program Alert On/Off

Rotate the NAVIGATION WHEEL to toggle between **Program Alert On** or **Program Alert Off**. When the desired alert status is highlighted, press the NAVIGATION WHEEL.

Auto Shutdown

In this mode, you have the option of programming the unit to automatically shut off after a 1-hour period without any user intervention. After 59 minutes of inactivity, a beep tone sounds, and a display prompt appears on the screen stating **Cancel Auto Shutdown**.

Cancel Auto Shutdown

Press the NAVIGATION WHEEL to terminate the function temporarily.
The following options are available in this mode:

- Enabled
- Disabled (Default)

Rotate the NAVIGATION WHEEL to toggle between **Enabled** and **Disabled**. When the desired shut down status is highlighted, press the NAVIGATION WHEEL.

Sleep Mode

In this mode, you have the capability of programming the unit to shutdown after a selected period of time. The screen displays **Sleep Mode** on the top line, with optional time settings as follows:

- leep ff
- 15 Minutes
- 30 Minutes
- 45 Minutes
- 60 Minutes

Rotate the NAVIGATION WHEEL to toggle through the desired sleep times. When the desired time is highlighted, press the NAVIGATION WHEEL. The unit will now turn off after the selected time has expired.

Factory Default

The **Factory Default** screen displays the text **Restore Settings** with the options: **Yes/No**.
Upon entering this mode, rotating the NAVIGATION WHEEL toggles between the **Yes** or **No** function display selection. If **Yes** is chosen, the unit reverts to the original factory settings for the following parameters:

- All Presets revert to empty
- Auto Dimming n
- Display Contrast to 50%
- Display Mode to Auto
- FM Modulator to n
- Audio utput Level to 50%
- Access to all skipped Channels (Locked channels remain locked)
- Memory earch n
- Memory Locations are erased
- 12 Hour Clock Format
- Eastern Time Zone
- Daylight avings Time bserved

Factory Default Screen

Troubleshooting

Fault	Possible Cause	Solution
R200 does not turn on	Blown Fuse, power cable not properly connected.	Check fuse, check power cable.
Antenna Not Detected display message	atellite antenna not connected. The antenna or cable is faulty.	Check satellite connection to the R200. Contact the system installer or vendor.
Audio static or loss of clarity	FM Frequency contains static. Vehicle antenna not connected to the radio.	witch to another FM frequency. Check the vehicle antenna cable.
No signal on R200 display	Check for obstacles over or around antenna.	Change location to eliminate interference from nearby objects.
No ound	The audio cables are not connected. The car radio is set on the wrong frequency.	Check the audio cables. Check the car radio's frequency.

Specifications

Audio utput ..... 2.2V (Peak-to-Peak)
Total Harmonic Distortion (THD) ..... <0.3%
ignal-to-noise (/N) ..... reater than 75dB
Fuse Requirement ..... 3A low Blow
Power upply ..... 10-16V, Negative round, DC
Receiver Dimensions ..... 138mm(W) x 92mm(H) x 48mm(D)
..... (5-3/8” W x 3-5/8” H x 1-7/8” D)
Receiver Weight 311g (11oz.)
Remote Control Dimensions ..... 49mm(W) x 164mm(H) x 30mm(D)
..... (1-7/8”W x 6-3/8”H x 1-1/8”D)
Remote Control Battery Requirements ..... 2 x “AAA”

Cleaning the Unit

If the unit becomes dirty, turn its power off and wipe it clean with a soft dry cloth. Do not use hard cloths or paint thinner, alcohol, or other volatile solvents to clean the unit. These may cause damage or remove indicator characters.

Limited Warranty

This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your Bill of ale for warranty service! Any items returned without a copy of the Proof of Purchase will be considered out of warranty.

What the Warranty Covers

This warranty extends only to the original user of the equipment and is limited to the purchase price of each part. Echo tar Technologies Corporation and its affiliated companies ("Echo tar") warrant this system against defects in materials or workmanship as follows:

Labor: For a period of one (1) year from the original date of purchase, if Echo tar determines that the equipment is defective, subject to the limitations of this warranty, it will be replaced at no charge for labor. Echo tar warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.

Parts: For a period of one (1) year from the original date of purchase, Echo tar will supply, at no charge, new or remanufactured parts in exchange for parts determined to be defective, subject to the limitations of this warranty. Echo tar warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period.

Note: "Parts" means items included in this system, which may include a receiver, antenna, cradle, and remote control. It does not include other parts purchased separately.

What the Warranty Does Not Cover

This warranty does not cover installation of the system. If applicable, such installation will be warranted under a separate installation agreement.

This warranty does not cover consumer instruction, physical setup or adjustment of any consumer electronic devices, remote control batteries, signal reception problems, loss of use of the system, or unused programming charges due to system malfunction. This warranty does not cover the elimination of externally generated static or noise, correction of antennae problems, costs incurred for installation, removal or reinstallation of the product, or damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems

This warranty does not cover cosmetic damage, damage due to lightning, electrical, battery leakage, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than authorized factory service, use of accessories not recommended by the receiver manufacturer, negligence, commercial or institutional use, or improper or neglected maintenance.

This warranty does not cover equipment sold A I or WITH ALL FAULT , shipping and handling, removal or reinstallation, shipping damage if the equipment was not packed and shipped in the manner prescribed, nor equipment purchased, serviced, or operated outside the continental United tates of America.

Legal Limitations

REPLACEMENT A PR VIDED UNDER THI WARRANTY I Y UR EXCLU IVE REMEDY. ECH TAR HALL N T BE HELD LIABLE F R ANY INCIDENTAL R C N E UENTIAL DAMA E F R BREACH F ANY EXPRE ED R IMPLIED WARRANTY N THI Y TEM, N R F R ANY INCIDENTAL R C N E UENTIAL DAMA E RE ULTIN FR M THE U E F, R INABILITY T U E, THI Y TEM. UNDER N CIRCUM TANCE HALL ECH TAR' LIABILITY, IF ANY, EXCEED THE PURCHA E PRICE PAID F R THI Y TEM. EXCEPT T THE EXTENT PR HIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY F MERCHANTABILITY R FITNE F R A PARTICULAR PURP E N THI Y TEM I LIMITED IN DURATI N T THE PERI D F THI WARRANTY. ECH TAR RE ERVE THE RI HT T REFU E T H N R THI WARRANTY IF ECH TAR DETERMINE ANY F THE AB VE EXCEPTI N T HAVE CAU ED THI Y TEM N T T HAVE PERF RMED PR PERLY. THI WARRANTY HALL BE V ID IF ANY FACT RY APPLIED IDENTIFICATI N MARK, INCLUDIN , BUT N T LIMITED T , ERIAL NUMBER AND IRIU IDENTIFICATI N (ID) R ELECTR NIC ERIAL (E N) NUMBER HAVE BEEN ALTERED R REM VED. THI WARRANTY HALL AL BE V ID IF THE Y TEM HA BEEN PENED BY AN UNAUTH RIZED PER N.

If You Need Assistance

1. Call the Customer ervice Center at 1-866-247-8028. Have the date of purchase, the receiver model number, and the ID or E N number from the back of the receiver ready.
2. A Customer ervice Representative will assist you.
3. If the Representative determines you should return any equipment, you will be directed to call a Return Authorization representative. Before shipping any equipment, you must talk to a Return Authorization representative and must obtain a Return Authorization (RA) number.
4. You will be given the appropriate address for which to return your equipment. Whether under warranty or not, you will be responsible for the cost of shipping back the defective equipment.

5. Returned equipment must be packaged properly, using either the original shipping materials or the packaging in which the replacement equipment is shipped. Include a copy of the Bill of ale. Any items returned without a copy of the Proof of Purchase will be considered out of warranty. Follow the instructions given to you by the Customer ervice Representative.
6. Write the RA number in large, clearly visible characters on the outside of the shipping box that you use to return the equipment. To avoid confusion and misunderstandings, shipments without an RA number clearly visible on the outside of the box will be returned to you at your expense.

FCC Warning

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in this User uide. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

Note: This equipment has been tested and found to comply with Part 15 of the FCC Rules. These rules are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications if it is not installed and used in accordance with these instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notes

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We may issue revisions to tell you about such changes.
 end any comments or questions to:

Echo tar Technologies Corporation,
Technical Publications, 94 Inverness Terrace East,
Englewood, Colorado 80112

Part Number: 130885

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